

**Listing of Claims:**

Claims 1 to 80 (Cancelled).

81. (Currently Amended) A method for isolating cells that express FLK-2 receptors on their surface, the method comprising binding the cells to a polyclonal or monoclonal antibody specific for the extracellular portion of a protein tyrosine kinase that is FLK-2 receptor, said extracellular portion defined by amino acids 1-517 of SEQ ID NO:2 or defined by amino acids 1-516 of SEQ ID NO:4, and isolating the cells that are bound to the antibody from cells that are unbound to the antibody.

82. (Cancelled).